

### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### **Listing of Claims**

1-12. **(Canceled)**

13. **(Currently Amended)** A method for diagnosing an differential diagnosis of autoimmune diseases ~~of the GSE type or associated with gluten sensitive enteropathy,~~ comprising taking a sample from a patient and testing the sample for IgA antibodies against human tissue transglutaminase and at least one other transglutaminase molecule selected from the group consisting of a-subunit of factor XIII (FXIIIa), keratinocyte transglutaminase (TGk), transglutaminase X (TGx), epidermal transglutaminase (TGe) and Band 4.2, wherein the presence of IgA antibodies in the sample is indicative of the existence of a gluten sensitive enteropathic autoimmune disease, thereby diagnosing an autoimmune disease.

14. **(Previously Presented)** The method of claim 13, wherein the auto immune disease is dermatitis herpetiformis, or morbus Duhring.

15. **(Withdrawn)** The method of claim 13, wherein the autoimmune disease is selected from a group consisting of the following: AI haemolytic anaemia, AI thrombocytopenic purpura, AI thyroid diseases, and atrophic gastritis – pernicious anaemia.

16. **(Withdrawn)** The method of claim 13, wherein the autoimmune disease is associated with infertility or increased risk of abortions or reduced fetal growth.

17-25. **(Canceled)**

26. **(Withdrawn)** The method of claim 13, wherein the autoimmune disease is selected from a group consisting of the following: Crohn's disease, colitis ulcerosa, Goodpasture syndrome, and IgA nephropathy or IgA glomerulonephritis.
27. **(Withdrawn)** The method of claim 13, wherein the autoimmune disease is selected from a group consisting of the following: myasthenia gravis, partial lipodystrophy, polymyositis, and primary biliary cirrhosis.
28. **(Withdrawn)** The method of claim 13, wherein the autoimmune disease is selected from a group consisting of the following: primary sclerosing cholangitis, progressive systemic sclerosis, recurrent pericarditis, and relapsing polychondritis.
29. **(Withdrawn)** The method of claim 13, wherein the autoimmune disease is selected from a group consisting of the following: rheumatoid arthritis, rheumatism, sarcoidosis, and Sjögren's syndrome.
30. **(Withdrawn)** The method of claim 13, wherein the autoimmune disease is selected from a group consisting of the following: SLE, splenic atrophy, type I (insulin-dependent) diabetes mellitus, and diabetes mellitus of other types.
31. **(Withdrawn)** The method of claim 13, wherein the autoimmune disease is selected from a group consisting of the following: Wegener granulomatosis, ulcerative colitis, vasculitis (both systemic and cutaneous), and vitiligo.
32. **(New)** The method of claim 13 wherein the presence of IgA antibodies against at least one other transglutaminase molecule selected from the group consisting of a-subunit of factor XIII (FXIIIA), keratinocyte transglutaminase (TGk), transglutaminase X (TGx), epidermal transglutaminase (TGe) and Band 4.2 is indicative of the presence of a second autoimmune disease.